## Soil and Water Conservation Cost Share Programs

NC Department of Agriculture & Consumer Services

**Division of Soil & Water Conservation** 



Vernon Cox, Director April 12, 2018



#### **SWC Cost Share Programs**

- Agriculture Cost Share Program (ACSP)
  - Addresses water quality problems on agricultural lands
- Community Conservation Assistance Program (CCAP)
  - Addresses water quality problems on non-agricultural lands
- Agricultural Water Resources Assistance Program (AgWRAP)
  - Addresses water quantity needs on agricultural lands

### Program Implementation Locally Led Conservation

- Delivered through 96 local soil & water conservation districts (SWCDs)
- NC Soil & Water Conservation Commission
  - Sets statewide rules and policies
  - ► Allocates funds to local SWCDs
- Local districts
  - Set local funding priorities,
  - Receive and rank applications,
  - Develop conservation plans and design practices
  - Oversee and certify implementation





### Agriculture Cost Share Program



A voluntary, cost share based program offering financial and technical assistance for the installation of best management practices to address nonpoint source pollution.

### Agriculture Cost Share Program

Fiscal Year	District Requests	Appropriation	Expenditures*
2016	\$18,670,946	\$4,016,998#	\$3,851,817
2017	\$18,286,819	\$4,016,998	\$4,415,635

\*Includes contracts initiated in the most recent three fiscal years.

#This include \$500,000 appropriation using TVA funds

## FY2017 Funding for Technical Assistance

Total appropriated	\$ 2,448,778
Technical positions (FTE) in 98 counties. Cost share is an average of 40.2% of salaries.	102.6
Operating Expenses per FTE	\$ 1,230
(recurring and non-recurring)	



### Agriculture Cost Share Program (ACSP)

#### Best Management Practices fall into 5 categories

- Sediment/Nutrient Delivery Reduction
- Erosion Reduction/Nutrient Loss Reduction
- Agricultural Chemical Pollution Prevention
- Animal Waste Management
- Stream Protection from Animals



### Sediment/Nutrient Delivery Reduction



## Erosion Reduction/Nutrient Loss Reduction



## **Agricultural Chemical Pollution Prevention**



### **Animal Waste Management**

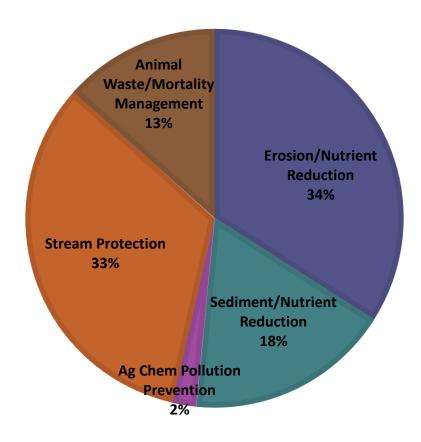


#### Stream Protection from Animals





## 2017 ACSP Contracts by Category, State Appropriations



#### ACSP Cumulative Benefits 1984 - 2017

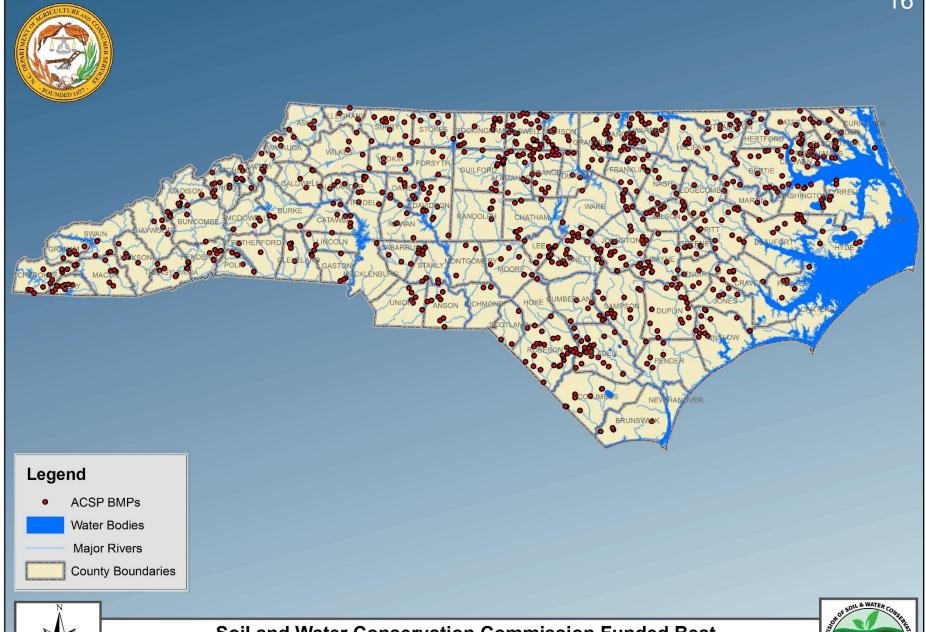
Total Number of Contracts	60,053
Acres Affected	3.3 million acres
Soil Saved Annually	7.6 million tons
Nitrogen (N) Saved Annually	21 million lbs
Phosphorus (P) Saved Annually	6.5 million lbs



# ACSP Program Accomplishments

1984 - 2017

Cropland Conversion	208,025 acres
Waste Structures	4,131 structures
Water Control Structures	4,436 structures
Livestock Exclusion Fencing	1,378 miles
Conservation Tillage	664,269 acres
Riparian Buffers	17,022 acres
Chemical Handling/Management	161 structures





**Soil and Water Conservation Commission Funded Best Management Practices Contracted in 2017** 





#### Community Conservation Assistance Program



A voluntary, incentive-based program designed to improve water quality through the installation of various best management practices (BMPs) on urban, suburban and rural lands not directly involved with agriculture production.

### Community Conservation Assistance Program

Fiscal Year	District Requests	Appropriation	Expenditures*
2016	\$2,217,930	\$136,378	\$133,854
2017	\$2,230,853	\$136,378	\$137,014

<sup>\*</sup>Includes contracts initiated in the most recent three fiscal years.

#### **CCAP Practices**

- Raingarden/wetland
- Abandoned well closure
- Cistern
- Impervious surface conversion
- Streambank & shoreline protection
- Riparian Buffer
- Diversion
- Critical Area Planting





#### CCAP Cumulative Benefits 2008 - 2017

Stormwater Wetlands	6.77 acres
Critical Area Plantings	41 acres
Riparian Buffers	7.1 acres
Marsh Sills	4,295 linear feet
Stream Restoration or Stabilization	58,741 linear feet
Abandoned Well Closures	267 wells
Cisterns	195 cisterns

## Agricultural Water Resources Assistance Program (AgWRAP)



## Agricultural Water Resources Assistance Program (AgWRAP)

AgWRAP was established through S.L. 2011-145 to assist farmers and landowners in doing any one or more of the following:

- Identify opportunities to increase water use efficiency, availability and storage;
- Implement best management practices (BMPs) to conserve and protect water resources;
- Increase water use efficiency;
- Increase water storage and availability for agricultural purposes.

### Agricultural Water Resources Assistance Program

Fiscal Year	District Requests	Appropriation	Expenditures*
2016	\$5,375,615	\$977,500	\$521,484
2017	\$6,854,975	\$1,477,500	\$900,187

<sup>\*</sup>Includes contracts initiated in the most recent three fiscal years.

## Water Supply Wells





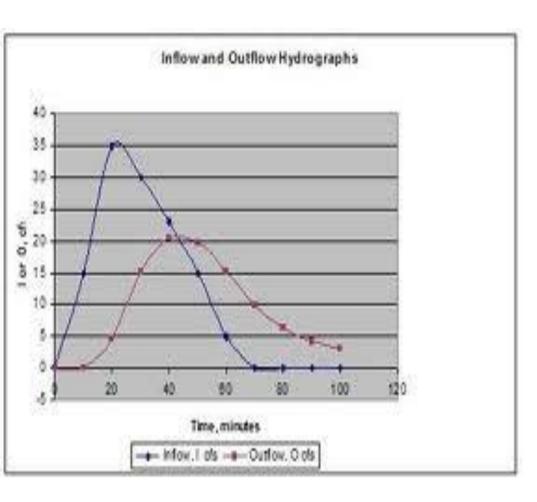




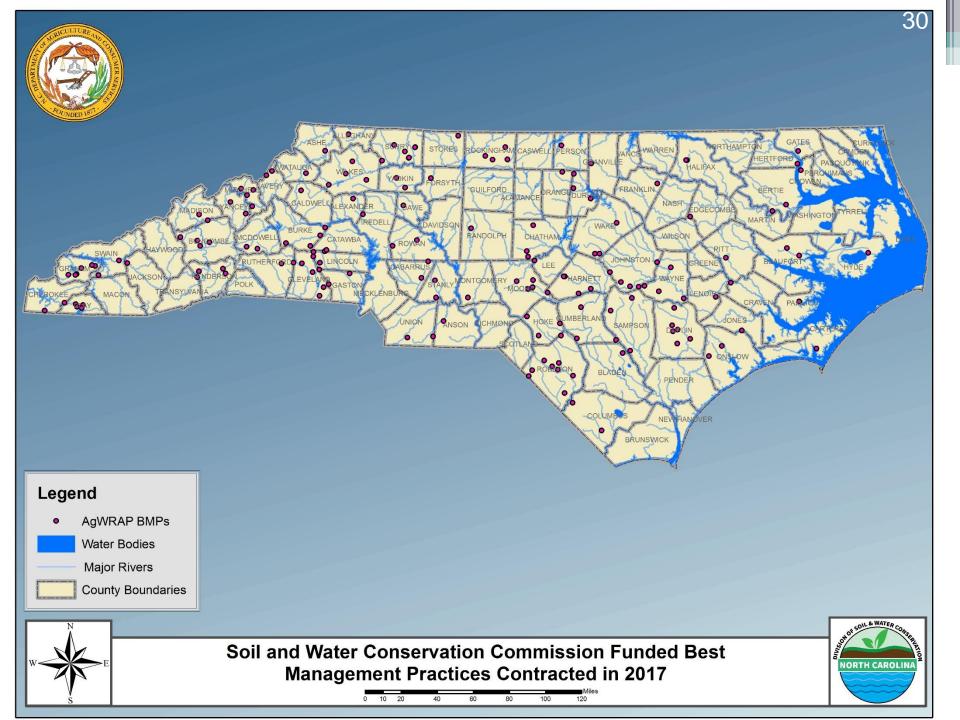
## Public benefits of AgWRAP

- Reducing competition for water resources by public users
- Improving the efficient use of water while enabling the industry to produce food, fiber and other agricultural products
- Preparing the agricultural industry to weather future droughts
- Generating and protecting local jobs in agriculture and agribusiness, including the Green Industry.

#### Benefits of On-Farm Storage



- Reduces competition for water supply
- Delays and reduces peak flow
- Provides flood protection
- Provides sediment and nutrient trapping
- Permits nutrient recycling



## AgWRAP Accomplishments 2012 - 2017

Agricultural Water Use Ponds	63 ponds
Agricultural Pond Repair/Retrofits	43 ponds
Pond Sediment Removals	52 ponds
Water Supply Wells	236 wells
Conservation Irrigation System Conversions	29 systems



## Why Cost Share?

- Agriculture is North Carolina's #1 Industry.
  - Help NC farmers be more productive and better stewards of natural resources.
- Agriculture remains under scrutiny from EPA and state regulators for non-point source pollution.
  - CAFO non-discharge permits
  - NC River Basin Nutrient Rules (Neuse, Tar-Pam, Falls Lake, Jordan Lake, + High Rock Lake)
  - Turbidity Standards (15A NCAC 2B .0211(21))
  - EPA CWA 303(d) list Impaired Streams
  - Endangered Species Act
- AgWRAP
  - Future Droughts + Population Growth will challenge agriculture.
- CCAP provides Districts an opportunity to address local water quality concerns that aren't specific to agriculture.

#### **Future Priorities**

- Relevance
  - Farmers/Landowners
  - Processors/Retailers
- Outreach
  - Limited Resource Farmers
  - Small/Beginning/Organic Farmers
- Maintain District Infrastructure
  - Ongoing Cost Share Programs
  - Adapting to changing land use
  - Disaster Response \$32.8 Billion
  - Swine Floodplain Buyout
- Engineer Staffing

## QUESTIONS?

NC Dept. of Agriculture & Consumer Services

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